

**Birla Institute of Technology & Science Pilani, Rajasthan**

**B.E. (Hons) Computer Science**

Semester wise pattern for students admitted to First degree program - B.E. (Hons) Computer Science :

Year	First Semester	Second Semester
1	General Biology Chemistry I Thermodynamics Mathematics I Physics I Engineering Graphics	Probability and Statistics Chemistry II Mathematics II Physics II Workshop Practice <b>Computer Programming I</b>
2	Electrical Sciences I Mathematics III <b>Computer Programming II</b> Mechanics of Solids Measurement Techniques I Technical Report Writing	Structure and Properties of Materials Electrical Sciences II <b>Microprocessor Programming &amp; Interfacing</b> <b>Discrete Structures for Computer Science</b> Measurement Techniques II Principles Of Management
Summer	Practice School I	
3	Data Structures and Algorithms Theory of Computation Operating Systems Digital Electronics and Computer Organization Optimization Control Systems	Numerical Analysis Advanced Computer Organization Data Base Systems Programming Languages & Compiler Construction Computer Networks Operations Research
4	Six Elective Courses	Practice School II  or  Dissertation

Elective Courses Offered :

Telecommunication Switching Systems & Networks, Data Mining, Parallel Computing, Software for Embedded Systems, Advanced Algorithms & Complexity, Real-Time Systems, Data Storage Technologies and Networks, Computer Graphics, Multimedia Computing, Image Processing, Artificial Intelligence, Network Programming, Special Projects.